

# WELCOME



## Proposed Airborne Toxic Control Measure to Limit Commercial Heavy-Duty, Diesel-Fueled Vehicle Idling

Public Workshop  
March 24, 2004

Air Resources Board



California Environmental Protection Agency

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## Agenda

- Proposed ATCM
  - Applicability
  - Requirements
  - Exceptions
- Examples of Alternative Technologies
- Emission Benefits
- Costs / Benefits
- Enforcement
- Timing
- Discussion



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## Draft ATCM



### Applicability

- All commercial diesel-powered vehicles operating in California with GVWR > 14,000 lbs
- Considering expansion to GVWR > 10,000 lbs
- Will also apply to out-of-state and out-of-country vehicles when operating in California

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### Draft ATCM (Cont'd) Requirements

- General Idling
- Sleeper Berth Equipped Vehicles
- Buses

Note: Exceptions are available to all of the above categories



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### Draft ATCM (Cont'd) Requirements

#### General Idling

All applicable vehicles

- All engine years
- Vehicle shall not idle longer than 5 minutes
- Effective upon approval by the Office of Administrative Law (OAL)
- Examples



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### Draft ATCM (Cont'd) Requirements

#### Sleepers - (While using sleeper berth)



- For trucks with engines not certified to 2007 federal emission standards
- Prior to January 1, 2009, may exceed the 5 minute idling limit only while using sleeper berth
- On or after January 1, 2009, shall not idle for greater than 5 minutes at any location and subject to "General" idling requirements
- Implementation date will allow for planning and infrastructure development

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### Alternative Technologies Examples

Staff is investigating alternative technologies to provide power for sleeper cab comfort and ancillaries. These may include:

- Truck Stop Electrification
- Auxiliary Power System (APS)
- Fuel Fired Heaters



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### Draft ATCM (Cont'd) Requirements

#### Commercial Buses

Idle time limit:



- 5 minutes when no passengers are onboard
- 10 minutes before passenger boarding
- No idling restriction while passengers are onboard

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### Draft ATCM (Cont'd) General Exceptions

- When stopped for traffic conditions over which the driver has no control
- Testing, servicing, repairing, or diagnostic purposes that requires engine idling
- Necessary to prevent a safety or health emergency
- When necessary to accomplish work for which the vehicle was designed



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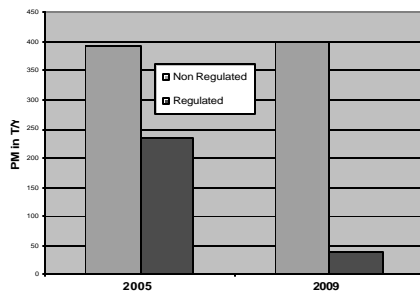
## Vehicle Inventory

EMFAC2002 v2.2

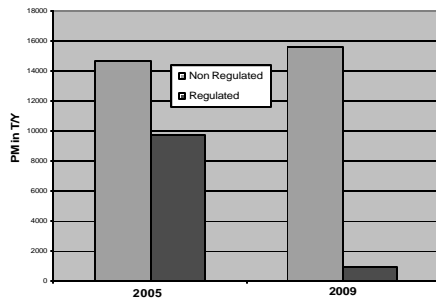
	2005	2009
Heavy Heavy-Duty*	179,838	196,534
Medium Heavy-Duty	177,598	195,767
Buses	<u>15,562</u>	<u>16,816</u>
Total	372,998	409,117

\*Includes out-of-state trucks

## Preliminary Estimate of PM Emissions & Emission Reductions



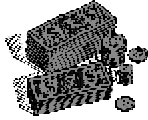
## Preliminary Estimate of NOx Emissions & Emission Reductions



## Preliminary Costs and Benefits

### Benefits

- Idling costs money
  - Diesel fuel price: \$1.80 / gallon
  - Idling trucks use ~0.7- 1 gal/hr
  - Maintenance savings : \$0.14 / hr



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## Preliminary Costs and Benefits (Cont'd)

- General Idling
  - 15,600 buses
    - 20 min/day reduced idling
    - \$190 /yr per bus ~\$3,000,000 total/yr.
  - 177,600 MHDV
    - 17 min/day reduced idling
    - \$145 /yr per vehicle \$25,700,000 total/yr.
  - 179,800 HHDV
    - 42 min/day reduced idling
    - \$400 /yr per vehicle \$71,900,000 total/yr.
- While Using Sleeper Berth
  - Alternative cost examples (cost to truck operator)
    - Auxiliary Power System - \$6,800 + Fuel / Maintenance
    - On-Board Truck Stop Electrification - up-to \$2,700 + hourly charge
    - Off-Board Truck Stop Electrification - up-to \$300 + hourly charge

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## Enforcement / Outreach



- Primary enforcement responsibility will be with ARB and peace officers
- Also, enforcement authority for local entities
- Outreach Possibilities:
  - Signage at truck stops, commercial fueling stations, and border crossings
  - Addition to commercial vehicle driving test and Informational notices with yearly registration
  - Professional organizations and web sites

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### Rescheduled Board Date

- New Board Date: July 22-23, 2004
- 45 Public notice: June 2004
- Increased opportunity for public comment



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### *Thank you for participating!*

- Future Public Workshop:
  - April 2004, Sacramento, TBD
- Board Meeting: July 22-23, 2004
- Please Visit Our Website:
  - Join our listserve for email updates
  - Contact information
  - Future outreach efforts / updates



<http://www.arb.ca.gov/toxics/dilling/dilling.htm>  
<http://www.srb.ca.gov/toxics/dilling/dilling.htm>

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